

WHAT IS CLAIMED IS:

1. A dielectric material for a plasma display panel comprising 80-100 mass% glass powder and 0-20 mass% ceramic powder, wherein:
the glass powder consists essentially of, in mass percent, 3-25% BaO, 25-60% ZnO, 15-35% B₂O₃, 3-30% SiO₂, 0.2-6% Li₂O, and 0-1.5% Al₂O₃.
2. A dielectric material according to claim 1, wherein:
the glass powder contains, in mass percent, 1-12% Li₂O+Na₂O+K₂O.
3. A dielectric material according to claim 1, wherein:
the glass powder does not substantially contain PbO.
4. A dielectric material according to claim 1, wherein:
the glass powder is a crystallizable glass consisting essentially of, in mass percent, 3-25% BaO, 30-60% ZnO, 15-35% B₂O₃, 3-20% SiO₂, 0.2-6% Li₂O, and 0-1.5% Al₂O₃.
5. A dielectric material according to claim 4, wherein:
the ratio of BaO/(B₂O₃+SiO₂) in the glass powder falls within a range between 0.1 and 0.8.
6. A dielectric material according to claim 4, wherein:
the glass powder has a crystallization temperature between 600°C and 800°C.
7. A dielectric material according to claim 1, wherein:
the glass powder is a non-crystallizable glass consisting essentially of, in mass percent, 3-25% BaO, 25-45% ZnO, 15-35% B₂O₃, 10-30% SiO₂, 0.2-6% Li₂O, and 0-1.5% Al₂O₃.

8. A dielectric material according to claim 7, wherein:
a ratio of B_2O_3/SiO_2 in the glass powder falls within a range between 0.8 and 2.0.
9. A dielectric material according to claim 1, wherein:
the glass powder has a granularity given by an average particle size D_{50} of 3.0 μm or less and a maximum particle size D_{max} of 20 μm or less.